

PCT

RAW SEQUENCE LISTING DATE: 07/29/2004
PATENT APPLICATION: US/10/502,307 TIME: 16:07:49

Input Set : A:\PTO.FG.txt

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3 <110> APPLICANT: Burioni, Roberto
      5 <120> TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODY FAB FRAGMENTS DIRECTED AGAINST HCV
E2 :
             GLYCOPROTEIN AND ENDOWED WITH IN VITRO NEUTRALIZING ACTIVITY
W--> 7 <130> FILE REFERENCE: 30068
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/502,307
C--> 9 <141> CURRENT FILING DATE: 2004-07-22
      9 <150> PRIOR APPLICATION NUMBER: IT RM2002A/000049
     10 <151> PRIOR FILING DATE: 2002-01-30
     12 <160> NUMBER OF SEQ ID NOS: 24
     14 <170> SOFTWARE: PatentIn version 3.1
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     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 119
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Homo sapiens
     21 <400> SEQUENCE: 1
     23 Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Met Pro Gly Ala Thr Val
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     27 Lys Val Ser Cys Gln Ser Ser Arg Tyr Thr Phe Thr Ser Tyr Gly Ile
                   20
                                       25
     31 Gly Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp
                                    40
     35 Ile Ser Gly Tyr Thr His Glu Thr Lys Tyr Ala Gln Ser Phe Gln Gly
                                55
     39 Arg Val Thr Met Thr Ala Glu Thr Ser Thr Gly Thr Ala Tyr Met Glu
                           70 -
                                                75
     43 Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
                       85
                                           90
     47 Asp Gly Gly Arg Val Val Pro Pro Thr His Leu Arg Ala Phe
     51 Asp Val Trp Gly Gln Gly Thr
     52
               115
     55 <210> SEQ ID NO: 2
     56 <211> LENGTH: 104
     57 <212> TYPE: PRT
     58 <213> ORGANISM: Homo sapiens
     60 <400> SEOUENCE: 2
     62 Met Ala Glu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
                                            10
     66 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser His Arg Val Asn Asn Asn
                   20
     70 Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
     74 Ile Ser Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
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78 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
                      70
82 Pro Asp Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Asp Ser Pro
                  85
                                       90
86 Leu Tyr Ser Phe Gly Gln Gly Thr
              100
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 124
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 3
97 Leu Leu Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln Thr Leu Ser
101 Leu Thr Cys Thr Val Ser Gly Val Ser Ile Ser Tyr Gly Gly Arg Gly
105 Val Ser Tyr Trp Gly Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu
                                40
109 Trp Ile Gly His Ile Tyr Tyr Phe Gly Asp Thr Phe Tyr Asn Pro Ser
113 Leu Asn Asn Arg Ala Thr Ile Ser Ile Asp Ser Ser Lys Asn Gln Phe
                                            75
                        70
117 Ser Leu Lys Leu Lys Ser Val Thr Ala Ser Asp Thr Ala Leu Tyr Phe
                                        90
                    85
121 Cys Ala Arg Ser Thr Leu Gln Tyr Phe Asp Trp Leu Leu Thr Arg Glu
              100
                                    105
125 Ala Ala Tyr Ser Ile Asp Phe Trp Gly Gln Gly Ile
           115
126
129 <210> SEQ ID NO: 4
130 <211> LENGTH: 102
131 <212> TYPE: PRT
132 <213> ORGANISM: Homo sapiens
134 <400> SEQUENCE: 4
136 Met Ala Glu Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
140 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Val Thr Ile Leu
               20
144 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro Lys Ala Leu Ile
           35
                                40
148 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
                            55
152 Ser Gly Ser Asp Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
156 Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln Leu Asn Thr Tyr Pro Trp
157
160 Thr Phe Gly Gln Gly Thr
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164 <210> SEO ID NO: 5
165 <211> LENGTH: 116
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Input Set : A:\PTO.FG.txt

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166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 5
171 Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val
175 Lys Val Ser Cys Lys Ala Ser Gly Asp His Tyr Gly Ile Asn Trp Val
179 Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro
                               40
183 Val Phe Gly Thr Thr Thr Tyr Ala Gln Lys Phe Gln Gly Arg Ala Thr
                           55
187 Ile Thr Ala Asp Asp Ser Thr Gly Thr Ala Phe Leu Glu Leu Thr Arg
191 Leu Thr Phe Asp Asp Thr Ala Val Tyr Phe Cys Ala Thr Pro His Gln
                   85
195 Leu His Val Leu Arg Gly Gly Lys Ala Leu Ser Pro Trp Asp Tyr Trp
196
               100
                           105
199 Gly Gln Gly Thr
200
     115
203 <210> SEQ ID NO: 6
204 <211> LENGTH: 102
205 <212> TYPE: PRT
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 6
210 Met Ala Glu Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
211 1
                   5
                                       10
214 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
218 Leu Ala Trp Tyr Gln Gln Lys Arg Gly Gln Ala Pro Ser Leu Leu Ile
219
222 Tyr Gly Thr Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
                           55
226 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
                       70
230 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asp Trp Pro Ser
                   85
234 Thr Phe Gly Gln Gly Thr
235
               100
238 <210> SEQ ID NO: 7
239 <211> LENGTH: 120
240 <212> TYPE: PRT
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 7
245 Leu Leu Glu Gln Ser Gly Ser Glu Val Lys Val Pro Gly Ser Ser Leu
249 Lys Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Ser Thr Tyr Thr Phe
                                   25
253 Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly
                               40
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Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\07292004\J502307.raw

257 Ile Thr Pro Ile Ile Gly Ile Ala Asn Tyr Ala Arg Asn Phe Gln Asp 261 Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Val Tyr Met Glu 265 Val Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys 269 Thr Ser Glu Val Thr Ala Thr Arg Gly Arg Thr Phe Phe Tyr Ser Ala 100 105 273 Met Asp Val Trp Gly Gln Gly Thr 115 277 <210> SEQ ID NO: 8 278 <211> LENGTH: 102 279 <212> TYPE: PRT 280 <213> ORGANISM: Homo sapiens 282 <400> SEQUENCE: 8 284 Met Ala Glu Leu Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly 285 1 5 10 288 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Tyr 292 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile 296 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 300 Ser Gly Ser Trp Thr Glu Phe Thr Leu Thr Ile Ser Arg Leu Gln Pro 70 75 304 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Leu Asn Thr Tyr Pro Trp 308 Thr Phe Gly Gln Gly Thr 309 100 312 <210> SEQ ID NO: 9 313 <211> LENGTH: 118 314 <212> TYPE: PRT 315 <213> ORGANISM: Homo sapiens 317 <400> SEQUENCE: 9 319 Leu Leu Glu Gln Ser Gly Ser Glu Val Lys Lys Pro Gly Ser Ser Val 323 Arg Val Ser Cys Thr Thr Ser Gly Gly Thr Leu Ser Asp Tyr Gly Phe 327 Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Gly 35 40 331 Ile Ile Pro Leu Phe Arg Arg Thr Thr Tyr Gly Gln Lys Phe Gln Gly 335 Arg Leu Thr Ile Thr Ala Asp Glu Ser Thr Gly Ala Thr Tyr Met Glu 339 Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 343 Glu Lys Val Ser Val Leu Thr Gly Gly Lys Ser Leu His Tyr Phe Glu 105 347 Tyr Trp Gly Lys Gly Thr

Input Set : A:\PTO.FG.txt

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           115
351 <210> SEQ ID NO: 10
352 <211> LENGTH: 102
353 <212> TYPE: PRT
354 <213> ORGANISM: Homo sapiens
356 <400> SEQUENCE: 10
358 Met Ala Glu Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
                                        10
362 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Arg
                20
                                    25
366 Leu Ala Trp Tyr Gln Gln Lys Arg Gly Gln Ala Pro Ser Leu Leu Ile
370 Tyr Asp Thr Ser Ser Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Ala
374 Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
375 65
                                            75
378 Glu Asp Phe Ala Leu Tyr Tyr Cys Gln Gln Tyr Asn Asp Trp Pro Ser
                    85
382 Thr Phe Gly Gln Gly Thr
                100
383
386 <210> SEQ ID NO: 11
387 <211> LENGTH: 118
388 <212> TYPE: PRT
389 <213> ORGANISM: Homo sapiens
391 <400> SEQUENCE: 11
393 Leu Leu Glu Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val
397 Lys Val Ser Cys Lys Thr Ser Gly Asp Thr Phe Arg Tyr Gly Ile Thr
                20
401 Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gln Ile
402
           35
                                40
405 Met Pro Thr Phe Ala Thr Ala Thr Tyr Ala Gln Arg Phe Gln Gly Arg
                            55
409 Val Thr Ile Ser Ala Asp Glu Ser Thr Ser Thr Ala Tyr Leu Glu Val
413 Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Pro
                                        90
417 Arg Gln Val Thr Ile Leu Arg Gly Pro Lys Ala Leu Ser Pro Trp Asp
418
               100
                                    105
421 Tyr Trp Gly Gln Gly Thr
422
           115
425 <210> SEQ ID NO: 12
426 <211> LENGTH: 102
427 <212> TYPE: PRT
428 <213 > ORGANISM: Homo sapiens
430 <400> SEQUENCE: 12
432 Met Ala Glu Leu Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Pro Gly
                                        10
436 Glu Arg Ala Ser Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn
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VERIFICATION SUMMARY

DATE: 07/29/2004

PATENT APPLICATION: US/10/502,307

TIME: 16:07:50

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\07292004\J502307.raw

L:7 M:283 W: Missing Blank Line separator, <130> field identifier

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date